

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Not entered)

Claims 2-5 (Canceled)

Claim 6. (Withdrawn) An apparatus according to claim 1, further comprising an aperture stop between said image display means and said projection optical system.

Claims 7-11 (Canceled)

Claim 12. (Original) An apparatus according to claim 1, wherein the projection surface receives light from said image display means and the projection surface is constructed such that at least two eccentric Fresnel plates which have substantially the same structure as stacked on each other.

Claim 13. (Original) An apparatus according to claim 1, wherein light from said image display means is projected on the projection surface from a rear surface thereof.

Claim 14. (Original) An image processing apparatus comprising:
said display apparatus defined by claim 1; and

an image information input device for supplying image information to said display apparatus.

Claim 15. (Previously Presented) An apparatus according to claim 14, wherein said image information input device comprises an arithmetic unit.

Claim 16. (Not entered)

Claim 17. (Previously Presented) An apparatus according to claim 16, further comprising an aperture stop between at least one of said curved mirrors and said image display means.

Claim 18. (Previously Presented) An apparatus according to claim 16, further comprising an aperture stop between second and third mirrors of the curved mirrors from said image display means side.

Claim 19. (Previously Presented) A projection optical system for obliquely projecting light from image display means, comprising a plurality of aspherical curved mirrors, wherein an image is projected with a distortion not more than 1.2%.

Claim 20. (New) A display apparatus comprising:
at least one image display means; and

a projection optical system for obliquely projecting image light from said at least one image display means onto a projection surface,

wherein said projection optical system includes a curved concave mirror not a rotational symmetry, a curved convex mirror not a rotational symmetry, an aperture stop, three curved convex mirrors not a rotational symmetry, a curved concave mirror not a rotational symmetry, a mirror having at least one plane or an aperture stop, a curved concave mirror not a rotational symmetry, two curved convex mirrors not a rotational symmetry, a curved concave mirror not a rotational symmetry, a curved convex mirror not a rotational symmetry, a curved concave mirror not a rotational symmetry and at least a mirror having at least one plane that are arranged in order from a side of said at least one image display means,

and wherein said projection optical system projects the image light with a distortion equal to or less than 1.2% onto the projection surface.

Claim 21. (New) A display apparatus comprising:

at least one image display means; and

a projection optical system for obliquely projecting image light from said at least one image display means onto a projection surface,

wherein said projection optical system includes a curved concave mirror not a rotational symmetry, a curved convex mirror not a rotational symmetry, an aperture stop, three curved convex mirrors not a rotational symmetry, a curved concave mirror not a rotational symmetry, a mirror having at least one plane,

and wherein said projection optical system projects the image light with a distortion equal to or less than 0.5% onto the projection surface.

Claim 22. (New) A display apparatus according to claim 21, wherein the projection surface includes a hologram or eccentric Fresnel plate, and a lenticular or diffusion plate that are arranged in order from a side of said at least one image display means, and wherein said projection optical system projects said image light from an opposite side of an observer onto the projection surface.

Claim 23. (New) A display apparatus according to claim 22, wherein said hologram or eccentric Fresnel plate comprises two hologram or eccentric Fresnel plates, and said lenticular or diffusion plate comprises one lenticular or diffusion plate, and wherein the curved concave mirror not a rotational symmetry, the curved convex mirror not a rotational symmetry, the three curved convex mirrors not a rotational symmetry, and the curved concave mirror not a rotational symmetry are formed by depositing of an aluminum and supported by a die-cast frame.

Claim 24. (New) A display apparatus according to claim 23, wherein a thickness of said at least one image display means is equal to or less than 30 cm.

Claim 25. (New) A display apparatus comprising:
at least one image display means; and
a projection optical system for obliquely projecting image light from said at least one image display means onto a projection surface,
wherein said projection optical system includes an aperture stop, a curved concave mirror not a rotational symmetry, two curved convex mirrors not a rotational symmetry,

a curved concave mirror not a rotational symmetry, a curved convex mirror not a rotational symmetry, a curved concave mirror not a rotational symmetry and a mirror having at least one plane,

and wherein said projection optical system projects the image light with a distortion equal to or less than 0.5% onto the projection surface.

Claim 26. (New) A display apparatus according to claim 25, wherein the projection surface includes a hologram or eccentric Fresnel plate, and a lenticular or diffusion plate that are arranged in order from a side of said at least one image display means,

and wherein said projection optical system projects said image light from an opposite side of an observer onto the projection surface.

Claim 27. (New) A display apparatus according to claim 26, wherein said hologram or eccentric Fresnel plate comprises two hologram or eccentric Fresnel plates, and said lenticular or diffusion plate comprises one lenticular or diffusion plate,

and wherein the curved concave mirror not a rotational symmetry, the curved convex mirror not a rotational symmetry, the three curved convex mirrors not a rotational symmetry, and the curved concave mirror not a rotational symmetry are formed by depositing of an aluminum and supported by a die-cast frame.

Claim 28. (New) A display apparatus according to claim 27, wherein a thickness of said at least one image display means in equal to or less than 30 cm.